

State of Texas Assessments of Academic Readiness (STAAR™) Performance Level Descriptors Algebra II

Performance Level Descriptors

Students achieving Level III: Advanced Academic Performance can

- Interpret restrictions on the domain and range of a function (linear, quadratic, square root, rational, exponential, and logarithmic) and its inverse
- Evaluate the effectiveness of the various methods used to solve equations, inequalities, and systems of equations and/or inequalities
- Evaluate the strengths and weaknesses of each representation of a function

Students achieving Level II: Satisfactory Academic Performance can

- Determine the domain and range of a function (linear, quadratic, square root, rational, exponential, and logarithmic) and its inverse
- Determine and consider the reasonableness of numerical solutions to equations, inequalities, and systems of equations and/or inequalities using a variety of methods
- Formulate equations, inequalities, and systems of equations and/or inequalities to solve problems
- Generate multiple representations of a function and use them to determine attributes of the function
- Describe and use the relationship between an algebraic and geometric representation of a quadratic function or relation, including conic sections
- Analyze the effects of parameter changes on functional relationships (linear, quadratic, square root, rational, exponential, and logarithmic)
- Analyze situations modeled by linear, quadratic, square root, rational, exponential, and logarithmic functions

Students achieving Level I: Unsatisfactory Academic Performance can

- Determine the domain and range of a function (linear, quadratic, square root, rational, exponential, and logarithmic) represented by a table or a graph
- Find specific function values using algebraic and graphical methods
- Generate a graph or a table of a function given in algebraic form
- Describe the effects of parameter changes on linear, quadratic, and exponential functions